

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the Application of

Ranjan RAY

Serial No.: To be assigned

Filed: February 23, 2004

For: FINE GRAINED SPUTTERING TARGETS OF COBALT AND NICKEL BASE ALLOYS  
MADE VIA CASTING IN METAL MOLDS FOLLOWED BY HOT FORGING AND  
ANNEALING AND METHODS OF MAKING SAME

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

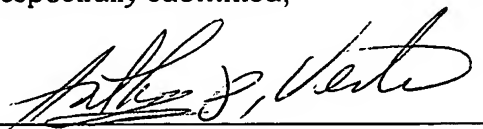
Sir:

Pursuant to Rules 56 and 98, Applicants hereby call the attention of the Patent Office to the references listed on the attached Form PTO 1449.

Applicants present these references so that the Patent Office may, in the first instance, determine any relevancy thereof to the presently claimed invention, see Beckman Instruments, Inc. v. Chemtronics, Inc., 439 F.2d 1369, 1380, 165 USPQ 355, 364 (5th Cir. 1970). Also see Patent Office Rule 104. Applicants respectfully request that these references be expressly considered during the prosecution of this application and made of record herein and appear among the "References Cited" on any patent to issue herefrom.

Respectfully submitted,

Date: Feb. 23, 2004

By:   
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ATTORNEY DOCKET NO. APV31670

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FORM PTO-1449 U.S. Department of Commerce  
(Rev. 4/92) Patent and Trademark Office

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

APPLICANT  
Ranjan RAY

FILING DATE  
February 23, 2004

GROUP

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5 1 6 3 4 9 8	11/92	Kantner et al.			
	3 6 8 3 9 9 6	08/72	Dunlop			
	3 5 6 7 8 9 6	03/71	Chang			
	4 0 0 5 1 6 3	01/77	Bokros			
	4 7 6 1 2 7 2	08/88	Hucke			
	5 9 2 4 4 7 0	07/99	Costilla-Vela et al.			
	5 9 6 4 0 9 1	10/99	Fukui et al.			
	4 1 2 9 4 6 2	12/78	Korenko			
	5 1 7 6 7 6 2	01/93	Berczik			
	5 4 8 9 4 1 1	02/96	Jha et al.			
	5 0 2 6 5 2 1	06/91	Kajimura et al.			
	5 6 6 5 2 6 2	09/97	Hajaligol et al.			
	5 2 2 6 9 4 6	07/93	Diehm et al.			
	4 6 7 0 2 0 1	06/87	Montgomery et al.			
	4 2 2 6 9 0 0	10/80	Carlson et al.			
	3 7 1 8 7 2 0	02/73	Lambdin, Jr. et al.			
	3 4 9 2 1 9 7	01/70	Olstowski et al.			
	3 2 5 6 5 7 4	06/66	Lirones			
	3 7 8 1 1 5 8	12/73	Leghom			

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

EXAMINER	DATE CONSIDERED
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**EXAMINER:** Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
6	0 0 4 0 6 4 4	03/85	JP			Abstract Only	
5	5 1 4 9 7 4 7	11/80	JP			Abstract Only	
	1 3 0 6 6 4 1	04/87	SU				X

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	USSN 10/143,920, Ranjan RAY et al., filed May 14, 2002
	USSN 10/151,871, Ranjan RAY et al., filed May 22, 2002
	USSN 60/463,736, Ranjan RAY et al., filed April 18, 2003

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2 9 7 7 2 2 2	03/61	Bieber			
	3 2 4 1 2 0 0	03/66	Lirones			
	3 2 4 3 7 3 3	03/66	Hosman			
	3 2 6 5 5 7 4	08/66	Scolari			
	3 2 6 6 1 0 6	08/66	Lirones			
	3 2 9 6 6 6 6	01/67	Lirones			
	3 2 5 7 6 9 2	06/66	Operhall			
	3 3 2 1 0 0 5	05/67	Lirones			
	3 3 8 9 7 4 3	06/68	Morozov et al.			
	3 4 8 5 2 8 8	12/69	Zusman et al.			
	3 5 1 9 5 0 3	07/70	Moore et al.			
	3 5 4 7 6 7 6	12/70	Bokros et al.			
	3 9 0 0 5 4 0	08/75	Robba et al.			
	4 2 0 9 3 4 8	06/80	Duhl et al.			
	4 2 2 6 9 0 0	10/80	Carlson et al.			
	4 4 5 3 9 8 5	06/84	Gessinger et al.			
	4 5 7 4 0 1 5	03/86	Genereux et al.			
	4 5 7 9 6 0 2	01/86	Paulonis et al.			
	4 6 0 8 1 9 2	08/86	Su			
	4 6 1 2 0 6 2	09/86	Nazmy et al.			
	4 6 2 7 9 4 5	12/86	Winkelbauer et al.			
	4 7 1 9 0 8 0	01/88	Duhl et al.			
	4 7 6 9 0 8 7	09/88	Genereux et al.			
	5 5 2 5 2 7 6	06/96	Okuyama et al.			
	5 6 3 0 4 6 5	05/97	Feagin			
	5 7 0 5 1 3 9	01/98	Stiller et al.			

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